Work Order ID December-21-11 9:54			*777	793*							Page 1
Item ID: D407- Revision ID:	-667-205TRN		Accept	*N900	040	100) * s	Setup		*N	S1*
Item Name: Crosst	ube Turning Detail								Stop	*N	S2*
Start Date: 21/12	/2011 Start Qty: 1.00	*1*		Cust Item I	D:						
Required Date: 06/01/	/2012 Req'd Qty: 1.00	*1*		Customer:							
Approvals: Proc	ess Plan: _M.し.ブ	Date: \\\\\\\\	么 Tooling: _	Da	ate:		F		Start	*N	R1*
QC:		Date:	SPC (Y/N):	Da	ate:				Stop	*N	R2*
Sequence ID/ Work Center ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reje Qty		Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr					· - ·					
D407-667-245	Rev F										
100			0.00				1		· · · · · ·		
100	MORI SEIKI CNC LA	ATHE LARGE							T)		
Mori Seiki	Memo		0.00						7		
Mori Seiki CNC Lathe Large	1-Fill tub	e with sand & install plug	s DT8531 on both ends as pe	r Folio FA248				(•		
	2-Turn fir	rst side as per Folio FA24	8			/	1. 111	/	١.	1.1	
	3-Blend t	ransition lines only, **do	not sand whole tube**:			И	MMC		12	\ / Ol /t	9
	DWG RE *Use mill	EV: A V: E bastard file, brush file re use sandpaper coarser that	peatedly with file card. 1 320 grit.							* <i>(</i>	
110	QC1- Inspect dimensi	ons to dimension sheet	0.00								
*11 0 *				*)	A Company	5		
QC	Memo		0.00					P	<i>-</i>		
Quality Control							Moh	n (12/0	1/09

Dart Ae	rospace Ltd						
V/O: ~	77793	WORK ORDER CHANGES			-	in a second	<u> </u>
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng /F Prod Mgr	Approval QC Inspector
.		·		**************************************			(40) (40)

Part No: 407-667-205 PAR #:	Fault Category:	V. Julse	NCR: Yes No	DQA: Juf C Date	: 12/2/17
Resolution: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Disposition:	00 0-07 - X	- QA: N/C Closed	t: Date	12/2/17

NCR: WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC Corrective Action Section B					Approval	Approval
DATE	STEP Description of NC Section A		Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Chief Eng	QC Inspector
		Coff 15 2.042 \$D	P	Acceptble	1		P	
12.01.23	-/60		12.61.23		12-1-30 (ax8)		12.01.23	
			Q5/042		(GLU)	2 John	PS/842	galaly
	1.1	RELUX NOMINAL @ 35"	W	ORIENT WITH 0.341	wil	bedore	M	
1201.3	100	BELLU NOMILUNE. @ 35"	12.01.27	ORIENT WITH 0.341 WALL THICKNESS UP/DOWN	On 4	010.	12.01.23	`
		· · · · · · · · · · · · · · · · · · ·	August !	IN BENDER	790		Ospor	Rury
<i>‡</i>			P	Note added to W10 79018.		Apparchis	0	
			12.02.16	W/0 74018.		ADP	1	
			awn				aspen	,

77793

Page 2

Item ID: Revision ID:	D407-667-2	05TRN		Accept	*N900	040	100) *	Setup Star	rt *N	S1*
Item Name:	Crosstube Tur	rning Detail							Sto	ρ * * \ Ι	S 2*
Start Date:	21/12/2011	Start Qty: 1.00	*1	*	Cust Item	ID:					
Required Date	e: 06/01/2012	Req'd Qty: 1.00	*1	*	Customer:						
Reference:							_	_	D 64		
Approvals:	Process Pla	nn;	Date:	Tooling:	D	ate:		j	Run Stai	I/I	R1*
	QC:		Date:	SPC (Y/N):	D	ate:			Sto	*N	R2*
Sequence ID/ Work Center 1	ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120		MORI SEIKI CNC LATI	HE LARGE	0.00				j	ſΥ		
Mori Seiki		Memo		0.00					- - Y		
Mori Seiki CNC L	athe Large	1-Turn secon	nd side as per Folio l	FA248							
		*Use mill ba *Do not use FOLIO REV DWG REV:	stard file, brush file sandpaper coarser th	do not sand whole tube**: repeatedly with file card. nan 320 grit.			Gv	? 1 An.	L	12/0	1/09
			and and plugs		D 407 ((7 0 4 5					,	/
			iff(Donot engrave or	g vibrating stylus as per Dwg a outside of tube)	D407-667-245						
130		QC1- Inspect dimensions	to dimension sheet	0.00				/	A		
130 QC Quality Control		Memo		0.00					- Ψ_		
red to	laged po		AUTH DATE		•		6	n M	74	12/0	1/09

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W/O:	ospace	e Liu	W	ORK ORDER CHANGES					
DATE	STEP	PRO	OCEDURE CHA		Ву	Date	Approval Chief Eng / Prod Mgr	Approva QC Inspect	
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- · ·	R	esolution:							
NCR:		\	WORK ORD	ER NON-CONFORMANC	E (NCR)		÷	
		Description of NC		Corrective Action Section B		Verific	ation	Approval	Approva
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti		Chief Eng	QC Inspect
	t.			• 4.					

Work Order ID 77793

77793

Page 3

December-21-11 9:54:39 AM

Item ID:

D407-667-205TRN

21/12/2011

Accept

N900040100

Setup Start

Revision ID:

Item Name: **Start Date:**

Crosstube Turning Detail

Cust Item ID:

Required Date: 06/01/2012

Req'd Qty: 1.00

Start Qty: 1.00

Customer:

Reference:

Approvals:

Process Plan: ___ Date:

Date:

Tooling:

0.00

0.00

SPC (Y/N):

Date:

Run

Date:

Stop

Sequence ID/ Work Center ID

Operation Description

Set Up/ **Run Hours** Tool ID

Tool # Plan

Accept

Reject

Reject Insp.

Stamp

140 . *140*

QC

Memo

QC8- Inspect parts - second check

Code

Qty

Qty

Number

Quality Control

145

145

Crosstubes

Memo

0.00

0.00

Crosstubes

Grind off circumferential machining marks longitudinally.

150

Crosstubes Chemical Conversion

0.00

150

HandFXtube

Memo

0.00

Hand Finishing Crosstubes

Ensure no sand is in the tube before alodine.

W/O:			W	ORK ORDER CHANGI	ES			
DATE	STEP	PROC	EDURE CH	ANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #: esolution:						·
NCR:		W	ORK ORD	DER NON-CONFORMA	NCE (NCR)		-
DATE	STEP	Description of NC Section A	Initial	Corrective Action Section Action Description	on B Sign &	Verification Section C	Approval Chief Eng	Approval QC inspector
		Section A	Chief Eng	Chief Eng	Date	Geomon o	Office Eng	QO IIIOPOOKO
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Work Ordo					*777	793*				*			Page 4	1
Item ID: Revision ID:	D407-667-20	OSTRN			Accept	*N900	040	100)*	Setup,	Start	*N:	S1*	
Item Name:	Crosstube Tur	ning Detail									Stop	*N!	S2*	
Start Date: Required Date:	21/12/2011 06/01/2012	Start Qty: 1.00 Req'd Qty: 1.00		*1* *1*		Cust Item I Customer:	D:							
Reference: Approvals:	Process Pla		Date:		_ Tooling: _		nte:				Start Stop		R1*	
	QC:		Date:_		_ SPC (Y/N):	Da	ıte:					*NI	R2*	
Sequence ID/ Work Center II)	Operation Description			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reje Qty		Reject Iumber	Insp. Stamp	
*160 *160*		QC3- Inspect Part Finish			0.00	SAC	12-0	70-03	0				10	
Quality Control		Мето			0.00									
170					0.00									
170		Packaging			0.00						5			
Packaging Packaging		Memo Identify and	stock in kan	ban rackLoca	ition: (100)			971	m,l	12	102	/14		
180		QC21- Final Inspection -	Work Order	Release	0.00									

0.00

Memo

*1 8 N *

Quality Control

MCJ 12/02/14 MCJ02/14

Dart Aerospace Ltd WORK ORDER CHANGES W/O: **Approval Approval DATE STEP PROCEDURE CHANGE** Bv Qty **Date** Chief Eng / QC Inspector Prod Mar 12-2-8 1601 Part No: D40716770 PAR #: ____ Fault Category: _____ NCR: Yes No DQA: ____ Date: Resolution: _____ Disposition: ____ QA: N/C-Closed: ____ Date: ____ WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B Verification **Description of NC Approval Approval STEP** DATE Sign & Initial **Action Description** Section C QC Inspector Section A Chief Eng Chief Eng Chief Eng **Date**

Picklist Print

December-21-11 9:54:42 AM

Work Order ID: 77793

77793

Parent Item:

D407-667-205TRN

D407-667-205TRN

Parent Item Name:

Crosstube Turning Detail

Start Date: 21/12/2011

Required Date: 06/01/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:A 08-03-06 new issue DD verified by:ec

IPP Rev B 08.04.02 Removed polish EC verified by: DD

IPP Rev:C 08-08-19 revE as per dwg DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6011-115		Manufactured	No			120	Each	3.0000	1	1			
D6011_11	5		,						**				

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Crosstube Material

Location Loc Qty Loc Code LG 3 3

= mm.L 12/01/06

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W/O:			V	VORK ORDER CHANG	GES				
DATE	STEP	PRO	CEDURE CH	IANGE	By	/	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Ca	tegory:	NCR: Y	es N	o DQA:	Date: _	
	Re	esolution:	Disposit	ion: <u></u>	QA:-N/	C Clos	sed:	Date: _	
NCR:		V	VORK OR	DER NON-CONFORM	IANCE (N	ICR)			
DATE	STEP	Description of NC			ction B		Verification		Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng		gn & late	Section C		QC Inspector
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DART AEROSPACE LTD	Work Order:	77793
Description: Crosstube Assembly	Part Number:	D407-667-245
Inspection Dwg: D407-667-245 Rev: F		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

X	First Article	Prototype
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	spection Sheet	Tolerance	Actual	Accept	Reject	Method of	Comments
Dra	awing Dimension		Dimension			Inspection	
	2.490	+0.005/-0.000	2.494			vern	CNC-08
	1.832	+0.005/-0.000	1.834)	
	1.838	+0.005/-0.000	1.840	Ź			
	1.892	+0.005/-0.000	1.893	1			
	2.052	+0.005/-0.000	2.053				
	2.206	+0.005/-0.000	2.310				
EA	2.521	+0.005/-0.000	1.522				; ".
SIDE	2.633	+0.005/-0.000	2-635		1	V	
	4.10	+/-0.030	4.10			vern	(wa-06
	4.978	+/-0.030	4,980			1	
	2.040	+0.000/-0.010	2032	/			
	0.125	+/-0.010	105	/		V	
	R0.063	+/-0.010	663	1		RVC>	
	R0.500	+/-0.010	1500			11	
	2.490	+0.005/-0.000	7.495			virn	(WC-08
	1.832	+0.005/-0.000	1.834				
	1.838	+0.005/-0.000	1.839				
	1.892	+0.005/-0.000	1.892	سے			
	2.052	+0.005/-0.000	2.052				
	2.206	+0.005/-0.000	2.209	/			
m	2.521	+0.005/-0.000	2.522				
SIDE	2.633	+0.005/-0.000	2-634	1		\mathbb{L}	
S	4.10	+/-0.030	9.10			V100	CNC-08
	4.978	+/-0.030	1,980			•	
	2.040	+0.000/-0.010	2.042				
	0.125	+/-0.010	.0126			4	
	R0.063	+/-0.010	1062	/		RC	
	R0.500	+/-0.010	,500	-		RG	
	112.91	+/-0.020	112.910	X		tape	angr 1-02

Measured by: MM, Audited by: Prototype Approval: N/A

Date: 12/01/09

Date: 12-7-30

Date: N/A

Rev	Date	Change	Revised by	Approved
Α	04.04.21	New Issue (P/O D407-667-205)	KJ/RF	
В	06.03.09	Dwg Rev updated	KJ/JLM	
С	06.03.30	Tolerance revised for 4.978 dimension	KJ/JLM	
D	07.02.19	Dwg Rev updated	KJ/JLM 10	11 (
Е	09.05.20	Dwg Rev updated	KJ 🐠	1

W/O:			WO	RK ORDER CHANG	ES				
DATE	STEP	PR	OCEDURE CHAN		Ву	Date C	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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							1 1 1		
Part No	:	PAR #:	Fault Categ	ory:	NCR: Yes No DQA: Date:				
	Res	solution:	Disposition	sition: QA: N/C Closed: Date					
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NCF	₹)			
DATE	STEP	Description of NC			ion B	Verificati		Approval	
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign a		Chief Eng	QC Inspector	
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Item	QTY -245	PART NUMBER	DESCRIPTION
\vdash	-245	PARTNUMBER	DESCRIPTION
1	х	D407-667-245	CROSSTUBE ASSEMBLY (407 HIGH AFT)
2	11	D6011-115	CROSSTUBE
3_	2	D2856-400-773	ABRASION STRIP
4	2	D2873-043	NUT PLATE
5	2	D2873-045	NUT PLATE
6	1	D2894-1	SUPPORT
7	2	D3190-1	CHAFING SHIELD
8	2	D3595-063-430	RUBBER CUSHION
9	14	MS20601AD4W8	RIVET (OR NAS9302B-4-8)
10	4	MS21920-22	CLAMP
11	2	MS21920-25	CLAMP (OR MS21920-24)
12	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947- 100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

D

С

1) MATERIAL: MANUFACTURED FROM D6011-115

FINISHED LENGTH = 112.91±0.020

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART: NUMBER "D407-667-245" AND BATCH NUMBER ON
- INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: 27.7 lbs
- PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN-OFF PART, BLEND OUT EDGE LONGITUDINALLY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 6 PASSES. MAXIMUM TUBE FLATTENING DUE TO
- BENDING IS 6% BASED ON O.D.

 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

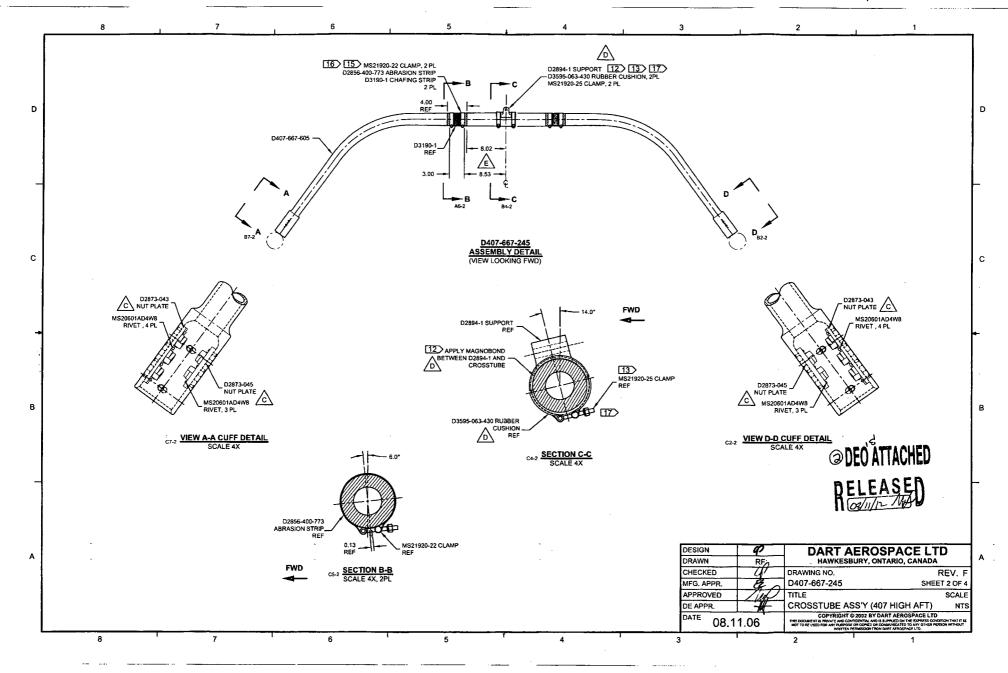
 12) INSTALL D2894-1 CENTER SUPPORT ÚSING A 0.03* TO 0.06* THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO
- 13) INSTALL MS21920-25 CLAMPS WITH D3595-063-430 RUBBER CUSHIONS TO SECURE D2894-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE CROSSTUBE
 - NOTE: MS21920-24 CLAMPS CAN BE USED TO ACCOMMODATE VARYING DIAMETERS. ENSURE THERE IS A MINIMUM OF 1.5 THREADS IN SAFETY ON THE NUTS.
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005' MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) INSTALL D2856-400-773 ABRASION STRIP WITH A 0.13 (REF) GAP ON BOTTOM SIDE OF CROSSTUBE, PER QSI 035.
- 16) INSTALL D3190-1 CHAFING SHIELDS SO THAT OVERLAP IS ON BOTTOM SIDE OF CROSSTUBE OPPOSITE D2894-1 SUPPORT.
- 17) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOPCOLY RETURNITO **ENGINE RING** UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT SOURCE 11/12/21

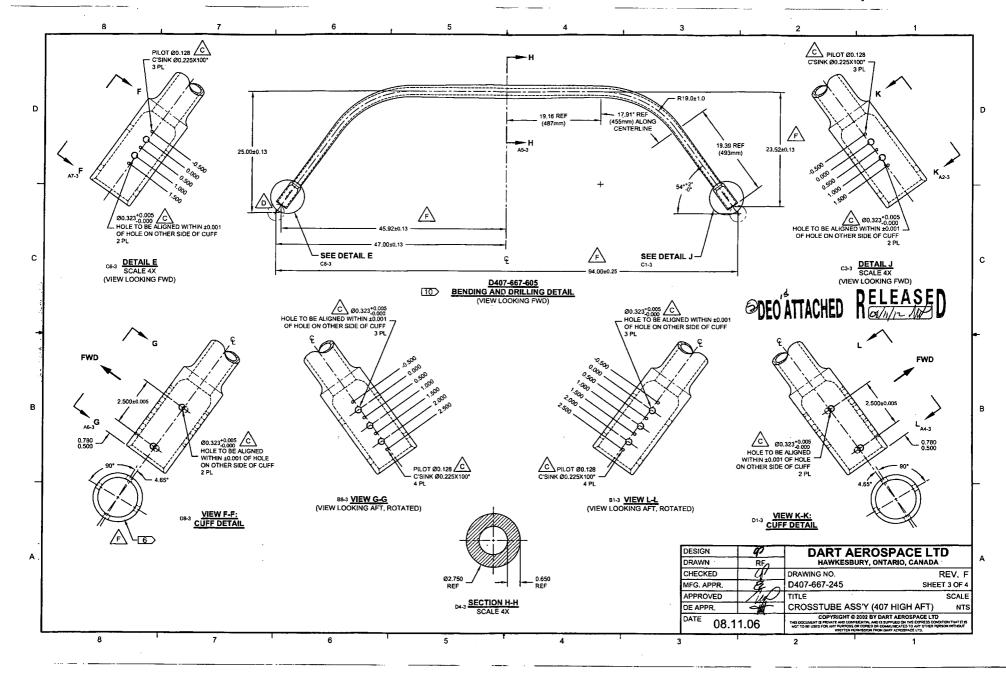
F	RELOCA	ATED FLAG # 6	D NEW STANDARDS (ZN 88-1); (ZN A8-3) PER NCR 210; D TOLERANCES (ZN C6-3, C4-3 &	RF	08.11.06				
E	REORG TO CU REASO ELIMIN	GANIZED VIEW RRENT STAND DNS: CLAMPS IATE INTERFE	8.40 AND 8.90 (ZN D5-2); VS AND REFORMATED DRAWING JARDS. MOVED 0.375 TOWARD CL TO RENCE WITH AIRCRAFT MOUNTS. 8-21 AND ECN#1225	мв	08.07.24] '			
D	ORIEN -851 AI	ADD VIEW FOR OEM SKID HOLES, ROTATE ORIENTATION OF CLAMPS SECTION F-F, REMOVE -851 ABRASION STRIP, ADD MAGNOBOND 6398, ADD CUSHION							
С			T PLATES FOR H BHT/AA SKIDTUBES	PH	05.07.26				
В	ADD C	HAFING SHIEL	D	CP	03.05.21	l			
A	NEW IS	SSUE		CP	02.05.13	1			
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CHECKE	D	4	DRAWING NO.		REV. F	l			
MFG. AF	PPR.	E a	D407-667-245	7-245 SHEET 1 0					
APPRO	ROVED TITLE SO								
DE APPI	₹.	74	CROSSTUBE ASSY (407 HI	GH AF	T) NTS	l			
DATE	08.1	1.06	COPYRIGHT © 2002 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND COMPIGIONIA, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMPIGED OR COMMISSIONED TO ANY CONTRE PERSON WITHOUT WINNITED REPRESON PERSON AND ARROPMENT CLTD.						

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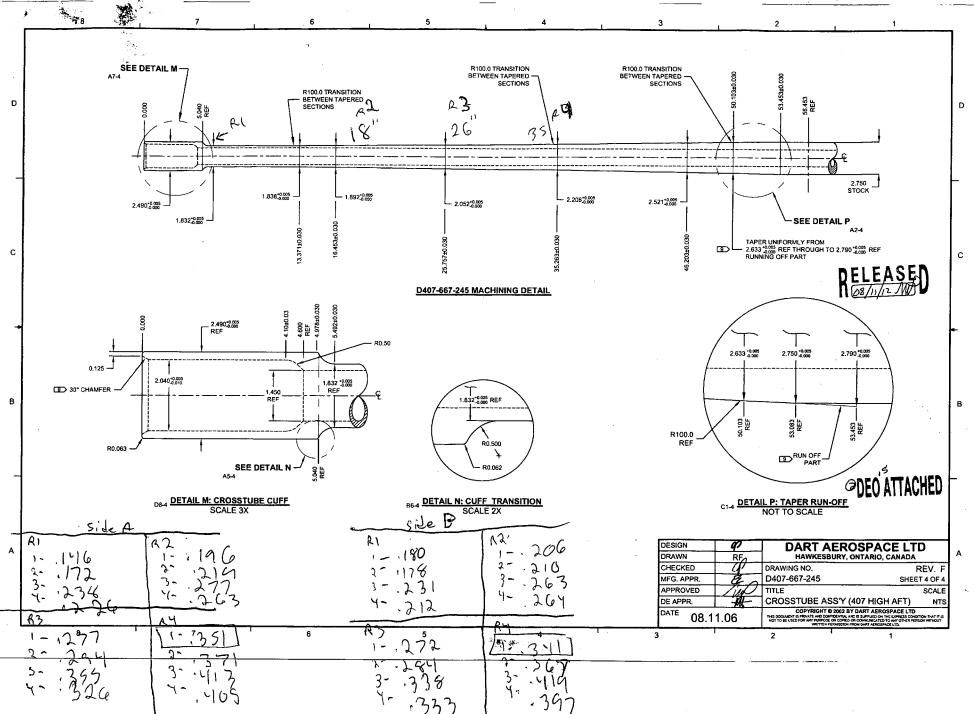
W/O:			W	ORK ORDER CHANG	ES		······································	
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date Qt	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		•						
Part No	•	PAR #:	Fault Cat	egory:	NCR: Yes	No DQA:	Date: _	
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NCR:	W. W. E.	V	VORK ORI	DER NON-CONFORMA	NCE (NCF	₹)		
DATE	CTED	Description of NC Section A		Corrective Action Section		Verificatio	n Approval	Approval
DATE	SIEF		Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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W/O:	İ	•	W	ORK ORDER CHANC	GES				
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date: _	
Position: Disposition: QA: N/C Closed: N/CR: WORK ORDER NON-CONFORMANCE (NCR)							Date: _		
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NCF	R)			
DATE	STEP	Description of NC	In this I	Initial Action Description			cation	Approval	Approval
	J	Section A	Chief Eng	Chief Eng	Sign 8 Date	Sect	ion C	Chief Eng	QC Inspector
				 					
			1			- 1			



Dart Aerospace Ltd W/O: **WORK ORDER CHANGES** Approval **Approval** DATE **STEP PROCEDURE CHANGE** Qty By **Date** Chief Eng / QC Inspector Prod Mgr Part No: ______ PAR #: ____ Fault Category: _____ NCR: Yes No DQA: ____ Date: ____ Resolution: ____ - Disposition: _-_ - QA: N/C Closed: ____ Date: ___ WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B Verification **Description of NC Approval Approval** / DATE **STEP Action Description** Sign & Initial Section A Section C Chief Eng QC Inspector Chief Eng Date Chief Eng



W/O:			V	VORK ORDER CHANG	IGES					
DATE	STEP	PRO	CEDURE CH	IANGE	Ву	, (Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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DATE	STEP	Description of NC	1 1		tion B	gn &	Verific		Approval	Approval
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DRAWING NO. D407-667-245	TITLE CROSSTUBE	E ASSY (407 HIGH	REV. F	DART AERO	SPACE LTD ING ORDER	,	o. 67-245-F-1	SHEET SHEET 1		SCALE NTS
DRAWN		CHECKED	(P)	MFG. APPR.	8	APPROVED	10	DE APPR.	11/	
DATE 11.04	.08	DATE 11.04	.12	DATE 11	.04.12	DATE	11.04.12	DATE 1	1.04.12	

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PURPOSE:

REMOVED ABRASION STRIP IN FAVOR OF A THIN LAYER OF PROSEAL 890.

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

IS:

Item	Qty -245	Part Number	Description
3	0	D2856-400-773	ABRASION STRIP

WAS:

3	2	D2856-400-773	ABRASION STRIP

NOTES 2 AND 15, SHEET 1 ARE AMENDED AS FOLLOWS:

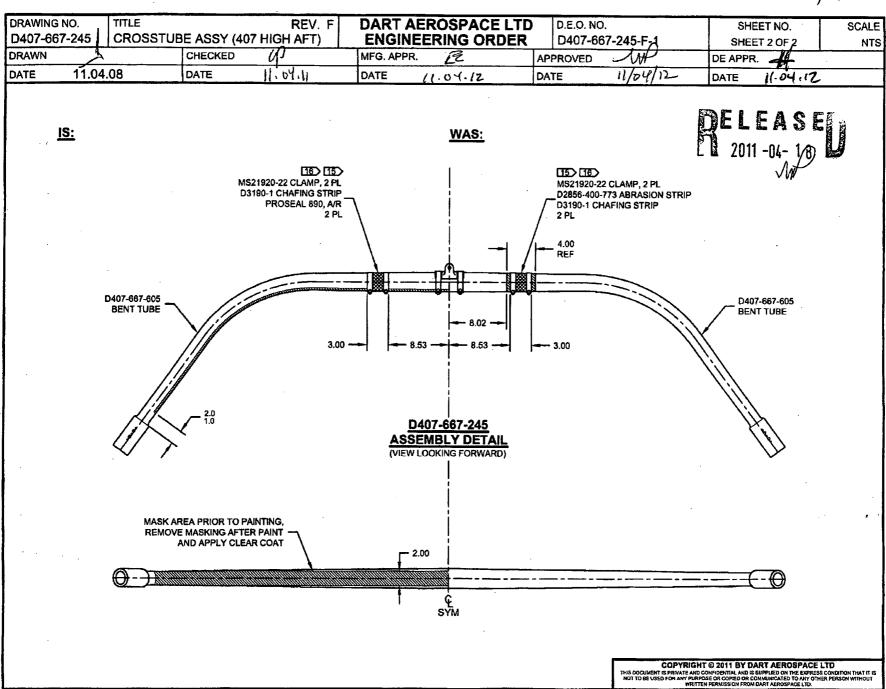
<u> 18:</u>

- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT
- 15) APPLY A THIN COAT OF PROSEAL 890 ON INSIDE CONCAVE SURFACE OF D3190-1 CHAFING SHIELDS AND LET CURE PER MANUFACTURER'S INSTRUCTIONS. INSTALL PROSEALED D3190-1 CHAFING SHIELDS ONTO CROSSTUBE BY APPLYING A THIN COAT OF PROSEAL 890 ONTO CROSSTUBE. BE SURE TO ELIMINATE ANY AIR GAPS.

WAS:

- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2
- 15) INSTALL D2856-400-773 ABRASION STRIP WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.

W/O:			V	VORK ORDER CHANG	ES					
DATE	STEP	PRO	CEDURE CH	IANGE	Ву				Approval Chief Eng / Prod Mgr	Approval QC Inspector
	:									
Part No	•	PAR #:	Fault Ca	tegory:	_ NCR: Ye	es No	o DQA:		Date:	
		Disposit	sition: Dat						3:	
NCR:		W	ORK OR	DER NON-CONFORM	ANCE (N	CR)				
DATE	STEP	Description of NC			tion B	n &	Verificat		Approval	Approval
DAIL	JIL!	Section A	Initial Chief Eng	Action Description Chief Eng		ri & ite	Section (C	Chief Eng	QC Inspector
	·									
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N/O:			WORK ORDER	CHANGES					
DATE	STEP	PRO	OCEDURE CHANGE	E	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspector
					-			<u>-</u> -	
						,			
				·					
Part No	:	PAR #:	Fault Category:	NCR:	Yes	No DQ	A:	Date:	
· · -	Resolutio	n:- <u></u>	Disposition:	QA: N	/C Clo	sed:		Date:	-
NCR:			WORK ORDER NON-CON	IFORMANCE (NCR)	**		

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
DATE		Description of NC		Corrective Action Section B	Verification	Ammunual	Annyoval			
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		Approval Chief Eng	Approval QC Inspector		

DRAWING I			REV. F		ROSPACE LTD		SHEET NO.	SCALE
D407-667	7-245 CROSS	TUBE ASS'Y (407 HIGH AFT)	ENGINE	ERING ORDER	D407-667-245-F-2	SHEET 1 OF	NTS
DRAWN	P	CHECKED	ASS	MFG. APPR.	Œ	APPROVED W	DE APPR.	
DATE	11.09.07	DATE	11.09.19	DATE	11-09-19	DATE 11.09.19	DATE 11.09.19	

PURPOSE:

REPLACE MAGNOBOND WITH 3M DP460 SCOTCH-WELD EPOXY ADHESIVE

CHANGE:

IS:

Item	Qty -245	Part Number	Description
12	A/R	SCOTCH-WELD DP460	EPOXY ADHESIVE, 3M SCOTCH-WELD

WAS:

12	A/R	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 17, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) INSTALL D2894-1 CENTER SUPPORT USING A 0.04" TO 0.07" THICK LAYER OF SCOTCH-WELD DP460 PER QSI 015. LET CURE FOR 24 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER ADHESIVE HAS CURED FOR 24 HOURS.

WAS:

- 12) INSTALL D2894-1 CENTER SUPPORT USING A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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Dart Aerospace Ltd WORK ORDER CHANGES W/O: **Approval Approval DATE STEP** PROCEDURE CHANGE By Qty Chief Eng / Date QC Inspector Prod Mgr Part No: ______ PAR #: _____ Fault Category: ______ NCR: Yes No DQA: ____ Date: ____ Resolution: ____ Disposition: ____ QA: N/C Closed: ____ Date: ____ WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B Verification **Description of NC Approval Approval** STEP DATE Sign & **Action Description** Initial Chief Eng QC Inspector Section A Section C Chief Eng Chief Eng Date